

CLAIMS

1.- A system for recognizing documents, being of the type of systems used for recognizing documents provided with a security mark, which security mark is defined by a substance which is excitable when a light coming from the corresponding light source is emitted on it, characterized in that the system comprises a light source defined by a modulated frequency diode laser (1) and at least two detector assemblies (3) for detecting the light emitted, by reflection or transmission, by the excitable substance of the security mark of the document to recognize, each detector assembly (3) being associated to a system for electronic processing defined by a filter (7) and an amplifier (8), in turn connected to a single microprocessor.

2.- A system for recognizing documents according to claim 1, characterized in that since the light source is defined by a diode laser (1) of small dimensions and with focused light, all of the light output is at a narrow wavelength and at one point.

3.- A system for recognizing documents according to claim 1, characterized in that each detector assembly (3) for detecting the light emitted, by reflection or transmission, from the excitable substance of the security mark, is defined by a photodiode (4), a filter (5) and a lens (6), duly encapsulated.

4.- A system for recognizing documents according to claims 1 and 3, characterized in that each detector assembly (3) for detecting the light emitted, by reflection or transmission, from the excitable substance of the security mark, is integrated in a body (9) which groups all the detector assemblies (3) for detecting the light reflected, which detector assemblies are directed towards a common point.

5.- A system for recognizing documents according to claim 1, characterized in that with the arrangement of the elements forming part of the system for recognizing, the detection path length is very short, obtaining a better optical tolerance with the banknote pass distance, and obtaining a small-sized and low cost equipment.

6.- A system for recognizing documents according to claim 1, characterized in that the system for recognizing incorporates a presence detector determining the placement of the security mark on the document to recognize.

7.- A system for recognizing documents according to claim 1, characterized in that the light source can be defined by any light source with its corresponding filter, achieving the necessary monochromatic character.

ABSTRACT

A system for recognizing documents, being of the type of systems used for recognizing documents provided with a security mark, which security mark is defined by a substance which is excitable when a light coming from the corresponding light source is emitted on it, comprising a light source defined by a modulated frequency diode laser (1) and at least two detector assemblies (3) for detecting the light emitted, by reflection or transmission, by the excitable substance of the security mark of the document to recognize, each detector assembly (3) being associated to a system for the electronic processing defined by a filter (7) and an amplifier (8), in turn connected to a single microprocessor.